SKATE PARK NOISE MITIGATION OPTIONS

Since installation, there have been ongoing community concerns regarding noise and visual intrusion from the skate park into neighbouring properties. Council has responded to these concerns by undertaking noise monitoring studies and investigations into potential noise mitigation structures. Council is now seeking community feedback on the most appropriate method of noise mitigation for the skate park.

Council engaged acoustic consultants JTA to model three options for noise mitigation at South Arm Oval skate park. The three options modelled were:

- Option 1 - Earth Berm with Paling Lap Fence
- Option 2 - Earth Berm with Vegetation Screen
- Option 3 - Sound Attenuation Wall

The three options were modelled for their effectiveness in lowering the level of noise projecting from the skate park and the results have been published in the 'Noise Mitigation Study' (May 2020) prepared by JTA and available on Councils website.

The two most efficient noise mitigation methods, Options 1 and 3, are represented in plan and section below for community information and review. The fourth option is to not install any additional sound mitigation structures and for the existing site conditions surrounding the skate park to remain.

Note: JTA's modelling of Option 2 demonstrated that an earth berm with a vegetation screen was not a viable solution for noise mitigation due to the lack of efficiency that foliage has on attenuating noise transition.

EXISTING SITE CONDITIONS



Looking south west from skate park toward community centre

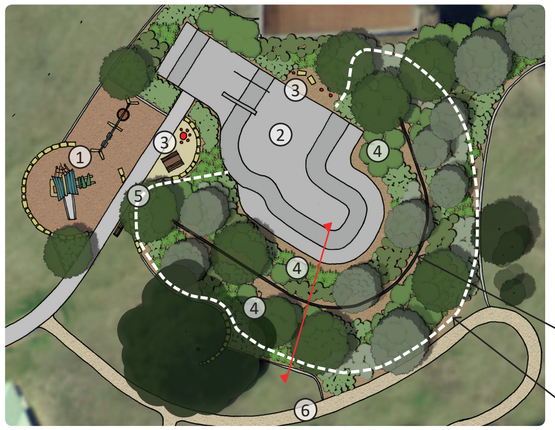


Existing planting established on skate park batters



Native planting to southern site boundary

OPTION 1 - EARTH BERM WITH PALING LAP FENCE



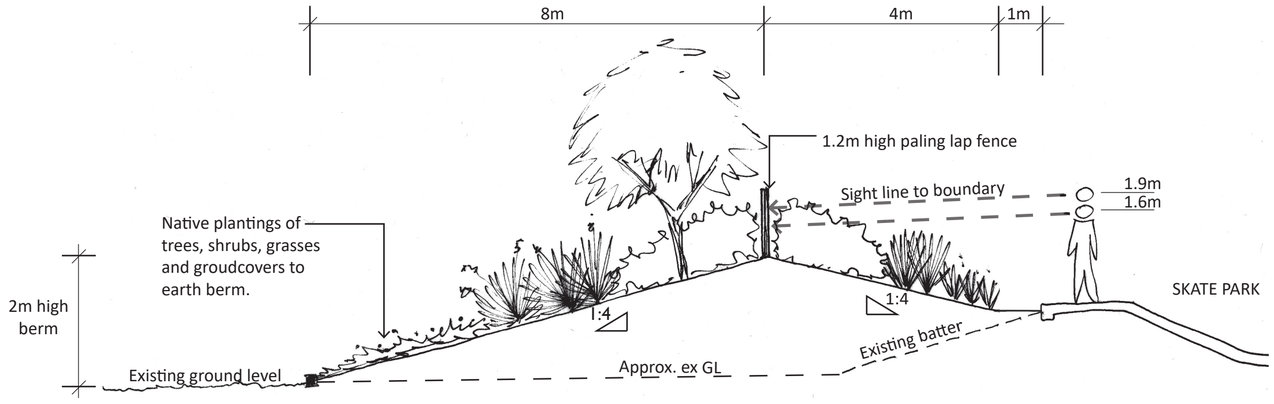
PLAN

LEGEND

1. PLAY SPACE
2. EXISTING SKATE PARK
3. SEATING AREAS
4. EARTH BERM WITH NATIVE PLANTINGS
   2m high earth berm with mixed native plantings of trees, shrubs and ground covers.
5. SANDSTONE BLOCKS
   Utilise sandstone blocks to retain edge of berm. Opportunity for blocks to provide informal seating and play elements.
6. EXPLORE TRACK

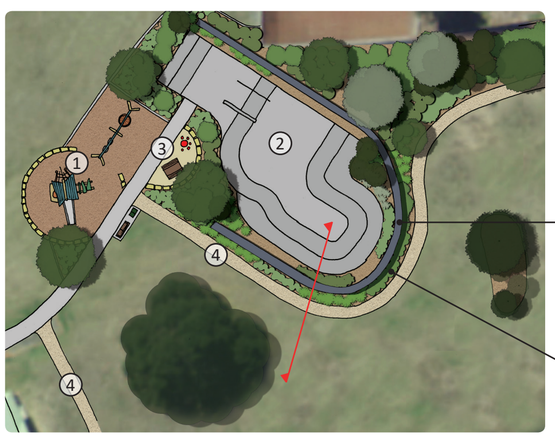
PALING LAP FENCE TO TOP OF BERM
1.2m high paling lap fence to mitigate noise and block line of sight to neighbouring properties.

Dashed line (white) shows approximate extent of 2m high berm with gradient 1 in 4.



SECTION

OPTION 3 - SOUND MITIGATION WALL



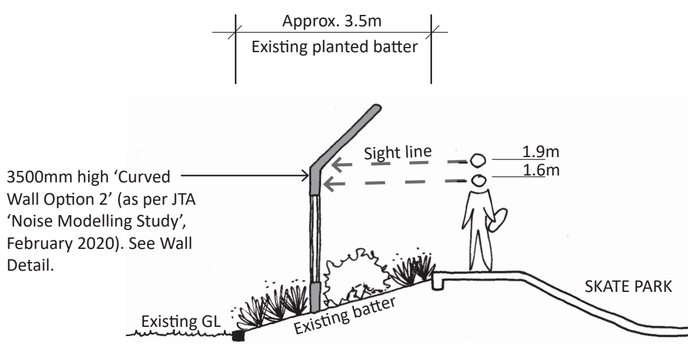
PLAN

LEGEND

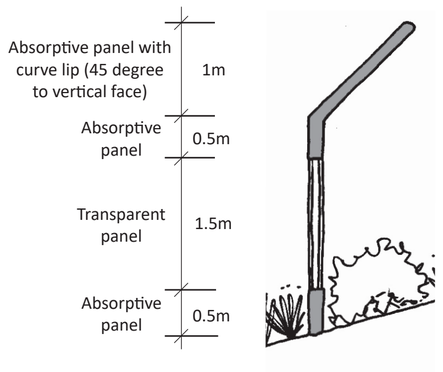
1. PLAY SPACE
2. EXISTING SKATE PARK
3. SEATING AREA
4. EXPLORE TRACK

SOUND MITIGATION WALL
3.5m high curved wall installed on existing batter as per JTA 'Noise Modelling Study', February 2020. Wall to extend around south, east and northern edges of the skate park as shown.

EXISTING PLANTED BATTER
Supplementary planting to batter following wall installation.



SECTION



WALL DETAIL

SOUTH ARM OVAL

Skate Park Noise Mitigation Options

For Public Consultation
June 2020

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